## **CLAIMS**

- 1. A battery storing device comprising:
- a battery storing section that can store a battery inside and has a

  beat retaining function of retaining heat of the battery that is stored inside
  using heat insulating material; and
  - a heat retention releasing mechanism for releasing the heat retaining function.
- 10 2. A battery storing device according to claim 1,

wherein the heat insulating material is vacuum heat insulating material.

- 3. A battery storing device according to claim 1 or claim 2, further comprising an independent discharge circuit that is directly coupled to the battery and can operate discharge independently from the charge/discharge operation of a main circuit.
  - 4. A battery storing device according to claim 3,
    wherein the independent discharge circuit has a heating resistor.
  - 5. A battery storing device according to claim 3 or claim 4, wherein the independent discharge circuit has at least a PTC device.

6. A battery storing device according to one of claim 3 to claim 5, further comprising:

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a temperature detector for detecting temperature inside the battery storing section; and

a circuit control section for controlling the independent discharge circuit based on the temperature detected by the temperature detector.

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7. A battery storing device according to one of claim 1 to claim 6,

wherein the heat retention releasing mechanism opens and closes an opening for making air flow between the inside and outside of the battery storing section.

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8. A battery storing device according to one of claim 1 to claim 6, wherein the heat retention releasing mechanism comprises:

a heat conductor forming a heat conduction route for conducting heat between the inside and outside of the battery storing section; and

a mechanism for opening and closing the heat conduction route.

- 9. A battery storing device according to one of claim 1 to claim 8, further20 comprising:
  - a temperature detector for detecting temperature inside the battery storing section; and
- a heat-retention release control section for controlling the heat retention releasing mechanism based on the temperature detected by the temperature detector.
  - 10. A battery storing device according to one of claim 1 to claim 9,

wherein the battery is a lithium secondary battery.

## 11. A power supply device comprising:

a battery storing device according to one of claim 1 to claim 10; and a battery stored in the battery storing device.

## 12. An electric vehicle comprising:

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a power supply device according to claim 11; and
an electrically driven mechanism for being driven by power supply
from the power supply device.